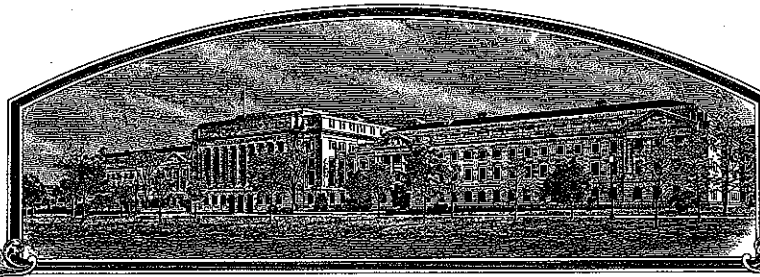


No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Lebanon Seaboard Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, CHEWINGS

'Ambassador'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this sixth day of December, in the year two thousand and six.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secy



REPRODUCE LOCALLY. Include form number and date on all reproductions.

FORM APPROVED - OMB NO. 0581-00

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Lebanon Seaboard Corporation		LTP-5001	Ambassador
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY PVPO NUMBER 200300158 DATE February 10, 2003 FILING AND EXAMINATION FEE: \$ 2705 DATE 2/10/03 CERTIFICATION FEE: \$ 768.00 DATE 10/31/2006
P.O. Box 10 Huntsville, Utah 84317-0010		503-580-7333	
6. FAX (include area code)			
801-745-4610			
7. GENUS AND SPECIES NAME	8. FAMILY NAME (Botanical)		
Festuca rubra var. commutata	Tribe = Festuceae GRAMINEAE (POACEAE)		
9. CROP KIND NAME (Common name)			
Chewings Fescue			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)			
Corporation			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	
Pennsylvania		1949	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS		14. TELEPHONE (include area code)	
Tim Ford, Research Agronomist P.O. Box 10 Huntsville, Utah 84317-0010		503-580-7333	
		15. FAX (include area code)	
		801-745-4610	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
<input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety			
<input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness			
<input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety			
<input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)			
<input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership			
<input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)			
<input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)			
<input type="checkbox"/> YES If "yes," answer items 18 and 19 below <input checked="" type="checkbox"/> NO If "no," go to item 20			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?	
<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?			
<input checked="" type="checkbox"/> YES If "yes," give names of countries and dates <input type="checkbox"/> NO			
BT: 3/20/2006 Per applicant's authorization. U.S.A. March 1, 2002			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
Tim Ford			
NAME (Please print or type)		NAME (Please print or type)	
Tim Ford			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Research Agronomist	02/05/03		

Origin and Breeding History of Ambassador Chewings Fescue

Ambassador Chewings fescue (*Festuca rubra* L. subsp. *commutata* Gaud.) is an advanced generation synthetic cultivar selected from the maternal progenies of 39 clones. Ambassador was developed for improved seed yield and turf performance, medium dark bright green color, early maturity and freedom from diseases, especially Pythium disease (*Pythium* spp.). Forty-four percent of the parental germplasm in Ambassador contain an endophyte (*Epichloe festucae* [Chardl]). Twenty-two of the plants contained an endophyte referred to as the Cambridge endophyte, which was discovered in plants selected from Longfellow Park in Cambridge, MA. Three plants contained an endophyte referred to as the Delaware endophyte, which was discovered in plants selected from 4 Delaware Drive in East Brunswick, NJ.

Approximately forty-nine percent of the maternal germplasm used in the development of Ambassador Chewings fescue trace to plants selected from or related to Longfellow. Thirty-eight percent trace to plants selected from or related to Magic Chewings fescue. Two percent of the maternal germplasm trace to a plant selected from Ewing Cemetery in Ewing, NJ in 1989.

The paternal germplasm and the remaining ten percent of the maternal germplasm used in the development of Ambassador Chewings fescue was developed using a germplasm and population improvement program initiated at the New Jersey Agricultural Experiment Station in 1962. The most promising plants used in this program were selected from old lawn-type turfs on the grounds of Fort Mc Henry, Baltimore, MD, Johnson Park in Piscataway, NJ, the College Avenue Campus of Rutgers University,

New Brunswick, NJ, the Bridgehampton Golf Course, Bridgehampton, NY, Longfellow Park in Cambridge, MA, Westview Cemetery in Atlanta, GA, old parks in Philadelphia, PA, Tennant Cemetery, in Tennant, NJ, and a lawn located at 4 Delaware Drive in East Brunswick, NJ.

Although Chewings fescue originated in Europe and performs best in cool-summer climates typical of northwestern Europe and the British Isles, millions of kilograms of seed have been used in turfgrass mixtures throughout the eastern United States. The performance of common types of Chewings fescue has been reasonably good on moderately fertile, moderately acidic, well drained soils in the cool-summer parts of New England and upstate New York, especially under conditions where light shade with adequate air circulation produce a cooling effect. In warmer regions, only a few elite plants have survived in old turfs. Many of these rare, outstanding plants have persisted and spread to produce attractive patches of turf often exceeding one or two meters in diameter. Such patches can be found in old turfs as far south as Atlanta, GA. The origin of these plants is unknown. However, selected plants appeared to be many decades old.

An intensive germplasm collection effort was initiated by Rutgers University in 1962 to select and utilize the best plants surviving in old turfs. Many weeks were spent examining old turfs for attractive, well-adapted plants of Chewings fescue and other useful turfgrasses. Promising plants selected from old turfs were subjected to clonal and progeny evaluation in closely mowed turf trials and spaced-plant nurseries. Of over a thousand Chewings fescue plants collected, only a few dozen were saved for further breeding work. These elite selections were crossed with other promising selections from the germplasm collection program or from current cycles of the breeding program.

Progenies from these crosses were included in population improvement programs, which included screening in a greenhouse for improved disease resistance, in spaced-plant nurseries for increased seed yield and uniformity, and in closely mowed turf trials for improved turf performance and increased stress tolerance. The Cambridge endophyte and the Delaware endophyte were introduced into the germplasm base through population backcrossing. Extensive screening for improved disease resistance was conducted under greenhouse conditions as well as in spaced-plant nurseries and closely mowed turf trials at North Brunswick, and Adelphia, NJ.

Two nurseries were established in 1994 and 1995 at the Rutgers Plant Biology Research and Extension Farm, Adelphia, New Jersey. The nursery established in the fall of 1994 contained 1680 plants selected from the best performing turf plots from the 1993 fine fescue test at Adelphia, NJ (selected from 275 single-plot progeny turf plots from 4 populations), the 1992 fine fescue test at Adelphia (selected from 300 single-plot progeny turf plots from 5 populations) and the 1993 fine fescue test at North Brunswick, NJ (selected from 210 single-plot progeny turf plots from 4 populations). The other nursery established in the fall of 1995 contained 780 plants selected from the same populations as above. Forty-seven plants were selected from these nurseries for characteristics such as medium-dark green color, high shoot density, medium-low growth stature, early seed maturity and freedom from disease. The selected plants were moved in the spring of 1996, prior to anthesis, to an isolated crossing block. Thirty-nine plants from 14 different lines were harvested from the crossing block for high seed yield, good floret fertility and freedom from disease. In the fall of 1996, one turf plot of each line was established at

Adelphia and two grams of seed from each plant were sent to Lebanon Turf Products for further nursery evaluation.

One thousand seeds from each of the thirty-nine plants were randomly seeded in groups of ten seeds per pot in a greenhouse. The soil medium in each pot contained a high incidence of a *Pythium* race common to the Pacific Northwestern United States. At 21 days after seeding over 75% of the seedlings showed symptoms of *Pythium* susceptibility. The most vigorous seedling in each pot was selected. This resulted in one hundred seedlings for each of the thirty-nine plants. The seedlings were allowed to grow for another month. Twenty-five seedlings for each of the thirty-nine plants were then selected for seedling vigor, a dark green color and freedom from disease. These 975 plants were planted in an isolation block near Independence, Oregon in the late fall of 1996. The isolation block was rouged during the summer, fall and winter of 1997. Rouging continued during the spring and summer of 1998. Plants that showed any sign of disease, low vigor, or a lighter color were rouged out. Additionally, any of the single progeny plots at Adelphia, which were below the mean of all the plots for overall turf quality, were systematically rouged more intensively than those above the overall mean. Essentially, the lower the overall turf rating the more severe the rouging.

In the summer of 1998 at anthesis sixty-seven plants remained in the isolation block. Sixty-two plants were subsequently hand harvested of which thirty plants exhibited choke stroma, the reproductive structure of the *Epichloe festucae* endophyte. The harvested seed was used to establish an experimental foundation field near LeGrande, Oregon and sent to the National Turfgrass Evaluation Program for testing.

Ambassador has remained stable and uniform in both turf plots and as mature plants from Breeder seed, Foundation Seed and Certified seed. Additionally, because of the high degree of uniformity and stability the Oregon Seed Certification Service has allowed Certified to Certified production plantings and they have remained uniform and stable. Ambassador has remained stable and uniform through four generations. Seed from the fourth generation from Breeder seed (a certified production field) was used to enter Ambassador into the 2003 NTEP test. Through four years and four generations the turf performance has remained stable and uniform. This was the second NTEP test for Ambassador and its performance has remained consistent, and it has remained stable and uniform.

It has been my observation as the breeder and field production manager that Ambassador is a very stable and uniform variety with no aberrant plants, no variants, and no off-types observed in turf, nurseries, or seed production fields. No variants have been observed since 2002 through the present.

STATEMENT OF DISTINCTNESS

Ambassador is most similar to Shadow chewings fescue as a mature plant. However, Ambassador has a significantly later ^{mean} initial heading date when compared to Shadow (See 2001 & 2002 data from a test near Hubbard, OR). ^(OT: 3/28/2006 per applicant's authorization)

Ambassador is also similar to Longfellow II in certain turf situations. Ambassador has a significantly darker genetic color when compared to Longfellow II (See NTEP data). Ambassador is also significantly darker than Shadow II. Ambassador also has a significant darker winter color when compared to both Shadow II and Longfellow II (See NTEP data). Ambassador can also be similar to Intrigue in turf situations. However, Ambassador has a significantly higher Percent Living ground cover in the summer than Intrigue. Ambassador also has a significantly less red thread when compared to Intrigue. Ambassador, Longfellow II, Intrigue all have good resistance to dollar spot. Ambassador has significantly less dollar spot than Shadow II and many other older varieties such as Jamestown II (See NTEP data).

200300158

Mean initial heading dates for entries in a fine fescue seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Species	2001	2002
Ambassador (LTP-5001)	Chewings	29 April*	29 April*
Shadow	Chewings	25 April	21 April
LSD (0.05)		4 days	4 days

* = Significant compared to Shadow

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

FORM APPROVED: OMB NO. 0581-0055

EXHIBIT C
(Fine Leaved Fescues)

OBJECTIVE DESCRIPTION OF VARIETY
FINE LEAVED FESCUES
(*Festuca* spp.)

200300158

NAME OF APPLICANT(S) Lebanon Seaboard Corporation ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) P.O. Box 10 Huntsville, UT 84317-0010	TEMPORARY DESIGNATION LTP-5001	VARIETY NAME Ambassador
		FOR OFFICIAL USE ONLY PVPO NUMBER 200300158

Place the appropriate number that describes the varietal character of this variety in the boxes below. Use leading zeroes when necessary (e.g., 0 8 9). Characteristics described including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: _____
Describe location of test area, conditions and number of plants used: _____

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

- | | | | |
|--|---------------|---------------------|----------------|
| <input checked="" type="checkbox"/> 1 = <i>F. rubra</i> ssp. <i>commutata</i> (Chewings) | 11 = Cascade | 12 = Highlight | 13 = Jamestown |
| 2 = <i>F. rubra</i> ssp. <i>litoralis</i> (Creeping Red) | 14 = Banner | 15 = Barfalla | 16 = Shadow |
| 3 = <i>F. rubra</i> ssp. <i>rubra</i> (Spreading Red) | 21 = Dawson | 22 = Starlight | 23 = Merlin |
| 4 = <i>F. ovina</i> (Sheep) | 24 = Pennlawn | 32 = Ruby | 33 = Fortress |
| 5 = <i>F. longifolia</i> (Hard) | 31 = Boreal | 34 = Ensylva | |
| 6 = <i>F. tenuifolia</i> (Fine-Leaved Sheep) | 41 = Covar | | |
| 7 = Other (Specify) <i>F.</i> _____ | 51 = Durar | 52 = Biljart (C-26) | 53 = Scaldis |
| | 61 = Panda | 62 = Barok | |

2. CYTOLOGY:

☒ 4 ☒ 2 Chromosome Number ☒ 1 Ploidy
1 = diploid 2 = tetraploid 3 = hexaploid
4 = octoploid

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

☒ 2 Northeast ☒ 2 Southeast ☒ 2 North Central ☒ 2 Pacific N.W. ☐ Other (Specify) _____

4. MATURITY: Date First Headed (panicle emergence) Location(s) of Trail(s)

☒ 5 Maturity Class:
1 = Very Early (Covar) 2 = Early (Highlight) 3 = Medium Early (Boreal, Dawson)
4 = Medium Late (Cascade, Ruby) 5 = Late (Jamestown, Agram) 6 = Very Late

Date Headed April 29, 2002 (It also headed the same date in 2001 near Hubbard, OR)

<input type="checkbox"/> <input type="checkbox"/> Days earlier than	<input type="checkbox"/> <input type="checkbox"/>	Comparison Variety Shadow
Maturity same as	<input type="checkbox"/> <input type="checkbox"/>	
<input checked="" type="checkbox"/> 8 Days later than	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 6	

5. PLANT HEIGHT: (At maturity; to top of panicle; Average of 10 tallest culms)

<input checked="" type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input checked="" type="checkbox"/> 7 mm height	
<input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 9 mm shorter than	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 6 Shadow
Height same as	<input type="checkbox"/> <input type="checkbox"/> Comparison Variety
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> mm taller than	<input type="checkbox"/> <input type="checkbox"/>

6. GROWTH HABIT: (Mature)

☒ 2 1 = Erect (Ruby) 2 = Semi-erect (Highlight) 3 = Prostrate (Silvana)

7. RHIZOMES:

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> mm Length	<input type="checkbox"/> <input type="checkbox"/> mm Width	<input type="checkbox"/> <input type="checkbox"/> mm Internode length	72.9 tillers per 12.7cm row.
<input checked="" type="checkbox"/> 1 1 = Absent (Highlight)	2 = Weakly Creeping (Dawson)	3 = Strongly Creeping (Boreal)	
4 = Very Strongly Creeping (Fortress)			

8. LEAF BLADE:

4

Color: 1 = Light Green (Starlight)

4 = Dark Green (Jamestown, Manoir)

7 = Other (Specify)

2 = Medium Light Green (Highlight)

5 = Bluegreen (Saphir)

3 = Medium Dark Green (Ruby, Agram)

6 = Graygreen (Scaldis)

1

Glaucosity (Sowing Year):

1 = Absent (Koket)

2 = Present (Vendome)

1

Anthocyanin: 1 = Absent

2 = Present

☐

Hairs (Basal) 1 = Absent 2 = Present

1

Margins: 1 = Smooth

2 = Semi-rough

3 = Rough

2

Margin folding (closure):

1 = Rolled inward (closed-Highlight)

2 = Flat (open-Jamestown, Engina)

2

Width class:

1 = Very Fine (Agram, Frida)

3 = Medium Fine (Fortress, Ruby, Scaldis)

2 = Fine (Jamestown, Highlight, Banner, Dawson)

4 = Medium Coarse (Engina)

8 5

mm Length (flag leaf)

2 7

mm Shorter than

1 6

Shadow

Blade length same as

☐

Comparison Variety

☐

mm Longer than

☐

2 0

mm Width (flag leaf)

☐

mm Narrower than

☐

Shadow

Blade width same as

1 6

Comparison Variety

☐

mm Wider than

☐

9. LEAF SHEATH:

2

Anthocyanin (seedling):

1 = Absent (Highlight)

2 = Present (Jamestown, Fortress, Marga)

1

Auricle Hairiness:

1 = Absent

2 = Present

2

Margins:

1 = Open (Highlight)

2 = Closed (Jamestown)

10. PANICLE (Mature plant):

2

Shape:

1 = Narrow-tapering

2 = Ovate

3 = Oblong

4 = Other (Specify)

2

Type:

1 = Open

2 = Intermediate

3 = Compact

2

Orientation:

1 = Erect

2 = Nodding

2

Branch Pubescence:

1 = Glabrous

2 = Pubescent Slightly

1

Anther Color:

3

Glume Color

(At 50% flowering):

1 = Yellowish Green
5 = Reddish

2 = Green

3 = Bluish Green

4 = Purplish

6 = Other (Specify)

1 1 0

mm Length

3 1

mm Shorter than

1 6

Shadow

Panicle length same as

☐

Comparison Variety

☐

mm Longer than

☐

11. PALEA:

2

Hairs (On keels or margins):

1 = Absent (Banner)

2 = Short (Agram, Scaldis, Olds)

3 = Long (Rainier, Fortress, Jamestown)

12. LEMMA (Mature):

<input type="checkbox"/>	Hairs:	1 = Absent (Jamestown)	2 = Several	3 = Many (Highlight)
<input type="checkbox"/>	mm Lemma Length			
<input type="checkbox"/>	mm Shorter than	<input type="checkbox"/>		Comparison Variety
<input type="checkbox"/>	Lemma length same as	<input type="checkbox"/>		
<input type="checkbox"/>	mm Longer than	<input type="checkbox"/>		
<input type="checkbox"/>	mm Lemma Width			Comparison Variety
<input type="checkbox"/>	mm Narrower than	<input type="checkbox"/>		
<input type="checkbox"/>	Lemma width same as	<input type="checkbox"/>		
<input type="checkbox"/>	mm Wider than	<input type="checkbox"/>		Comparison Variety
<input type="checkbox"/>	Awns:	1 = Absent	2 = Present	
<input type="checkbox"/>	mm Awn Length			
<input type="checkbox"/>	mm Shorter than	<input type="checkbox"/>		Comparison Variety
<input type="checkbox"/>	Awn length same as	<input type="checkbox"/>		
<input type="checkbox"/>	mm Longer than	<input type="checkbox"/>		

13. SEED (With lemma & palea):

<input type="checkbox"/>	Size Class (g/1000 seed):	1 = < .9g (Biljart, Dawson)	2 = .9 - < 1.1g (Jamestown, Highlight)
<input type="checkbox"/>		3 = 1.1 - 1.3g (Fortress, Novorubra)	4 = > 1.3g (Boreal, Golfrood)
<input type="checkbox"/>	mg per 1000 seed		
<input type="checkbox"/>	mg per 1000 seed less than	<input type="checkbox"/>	Shadow Comparison Variety
<input type="checkbox"/>	Seed Weight same as	<input type="checkbox"/>	
<input type="checkbox"/>	mg per 1000 more than	<input type="checkbox"/>	

14. DISEASE, INSECT, AND NEMATODE REACTION (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

<input type="checkbox"/>	Melting-out <i>Drechslera poae</i> (<i>Helminthosporium vagans</i>)	<input type="checkbox"/>	Stripe rust <i>P. striiformis</i>
<input type="checkbox"/>	Leaf spot <i>D. siccans</i>	<input type="checkbox"/>	Leaf rust <i>P. poae-nemoralis</i>
<input type="checkbox"/>	Net blotch <i>D. dictyoides</i>	<input type="checkbox"/>	<i>P. crandallii</i>
<input type="checkbox"/>	Leaf spot <i>Bipolaris sorokiniana</i>	<input type="checkbox"/>	Pythium Blight <i>Pythium ultimum</i>
<input type="checkbox"/>	Brown patch <i>Rhizoctonia solani</i>	<input type="checkbox"/>	Red thread <i>Corticium fusciforme</i>
<input type="checkbox"/>	Powdery mildew <i>Erysiphe graminis</i>	<input type="checkbox"/>	Dollar spot <i>Sclerotinia homoeocarpa</i>
<input type="checkbox"/>	Stripe smut <i>Ustilago striiformis</i>	<input type="checkbox"/>	Insect _____
<input type="checkbox"/>	F. Patch, Pink snow-mold <i>Fusarium nivale</i>	<input type="checkbox"/>	Nematode _____
<input type="checkbox"/>	Fusarium blight <i>F. tricinctum</i> , <i>F. roseum</i>	<input type="checkbox"/>	Other _____
<input type="checkbox"/>	Gray snow mold <i>Typhula lotana</i>	<input type="checkbox"/>	Other _____
<input type="checkbox"/>	Stem rust <i>Puccinia graminis</i>	<input type="checkbox"/>	Other _____

15. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate Degree of Resemblance by placing the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety. 2 = Same As
3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Rhizome Length	N/A		Growth Habit	Shadow	2
Leaf Width	Longfellow II	2	Leaf Color	Brittany	2
Panicle Color	Shadow	2	Panicle Shape	Shadow	2
Winter Color	Intrigue	2	Cold Injury	Banner III	2
Shade Tolerance	SR 5100	2	Heat		
Drought	Treasure	2	Disease*		
			Dollar Spot	Longfellow II	2

* Specify each disease evaluated.

16. ADDITIONAL DESCRIPTION: (Use additional sheets as required)

Describe all characteristics that cannot be adequately described in the form above in Exhibit D. Comparative varieties should be used as may be appropriate, such as for disease. Append all comparative trial and evaluation data, including measured characters, environmental, and disease tests.

RECEIVED
USDA-AMS-PVPO

'03 FEB 10 P 7 53

2002 mean morphological measurements for entries in a fine fescue seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Species	Plant Height (cm)	Panicle Length (cm)	Flag Leaf Height (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Tiller Leaf Length (cm)	Tiller Leaf Width (mm)	Tiller Count (#/12.7 cm Row)
Shadow	Chewings	100.6	14.1	51.1	11.2	1.9	10.8	1.5	72.9
Ambassador (LTP-5001)	Chewings	78.7*	11.0*	31.7*	8.5*	2.0	7.9*	1.5	79.3
LSD (0.05)		2.8	0.7	2.1	1.3	0.2	0.8	0.2	23.5

* = Significant compared to Shadow

200300158

TABLE 7B. GENETIC COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2001 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	AR1	CA1	IA1	IL1	IN1	KS1	KY1	MD1	MI1	MO1	MT1	NC1	NE1	NJ1	NJ2	NS1	NY1	OK1	PA1	QE1	SD1	UT1	VA1	WA1	WI1	WI2	MEAN	
SILHOUETTE (PICK FRC 4-92)	7.7	7.0	7.0	6.3	7.3	8.3	8.7	7.3	7.3	7.0	7.3	7.0	7.3	7.0	5.3	8.0	7.3	6.7	7.3	6.7	7.0	6.0	5.0	7.0	7.7	7.0	6.7	7.0
INTRIGUE	7.3	6.7	7.0	6.7	7.0	8.0	8.0	7.3	7.0	5.7	6.3	6.7	6.3	7.3	7.3	5.7	7.0	6.3	7.0	6.3	7.0	6.3	5.0	5.7	7.7	7.0	7.0	6.8
BRITANNY	7.3	6.7	7.7	5.7	7.0	8.3	9.0	7.0	7.0	5.7	6.0	7.0	7.7	4.7	5.7	6.3	7.3	6.7	7.3	6.7	6.7	6.3	5.3	6.0	7.0	7.0	6.7	
PICK FRC A-93	7.0	7.3	7.3	6.0	7.3	8.0	8.3	7.3	6.7	6.3	6.7	6.3	5.7	7.3	7.0	6.0	7.3	6.3	7.0	6.0	6.7	6.3	4.3	6.3	7.0	7.0	6.7	
AMBASSADOR	7.7	6.7	6.7	5.3	7.0	8.3	7.3	7.3	6.7	7.0	6.0	6.3	6.3	6.7	7.7	5.0	6.7	7.7	7.0	6.0	6.7	6.3	4.7	6.0	7.7	7.0	6.7	
BAR CHF 8 FUS2	7.3	7.0	6.7	7.0	7.7	8.0	8.7	7.0	7.0	5.7	6.0	6.7	6.7	7.0	4.7	5.7	6.7	6.0	7.0	6.0	6.0	6.0	5.3	7.3	7.3	7.0	6.7	
ABT-CHW-3	7.3	7.0	7.0	6.0	7.0	8.3	9.0	7.0	7.0	6.0	6.0	6.3	6.3	7.0	7.0	5.5	7.0	6.0	7.0	6.0	6.3	6.0	5.0	5.7	7.3	7.0	6.7	
CULOMBRA	7.0	7.3	6.7	6.0	7.0	7.7	8.0	7.3	7.0	6.0	6.0	6.3	7.0	7.0	6.0	5.7	7.0	6.0	7.0	6.0	6.3	5.7	4.7	6.3	7.3	7.0	6.6	
MAGIC	7.7	6.3	6.3	5.7	7.0	8.3	8.3	7.0	6.3	6.3	6.0	7.0	6.3	7.3	5.7	5.7	8.0	5.7	7.0	5.7	6.3	6.7	5.3	5.7	7.0	6.7	6.6	
BANNER III	7.3	6.7	7.3	6.0	7.0	8.0	8.3	7.3	7.0	5.0	6.7	7.0	6.3	7.3	4.3	5.3	6.3	7.0	7.3	6.0	6.0	6.3	5.0	5.7	7.0	6.7	6.6	
ABT-CHW-2	7.7	6.3	6.3	6.0	7.0	8.7	8.0	7.0	6.7	5.7	5.7	7.0	6.0	7.0	6.3	4.3	7.0	6.3	7.0	5.7	6.7	6.0	4.7	5.7	7.0	7.0	6.5	
NB-63	7.0	6.3	7.0	5.3	7.0	8.3	8.3	7.0	7.0	5.3	5.7	6.3	6.0	7.3	6.0	5.0	7.3	5.3	7.0	5.7	6.7	5.7	4.7	5.3	7.3	7.0	6.4	
LONGFELLOW II	7.0	5.7	6.7	5.3	7.0	8.3	7.0	7.3	6.7	6.0	6.0	6.7	6.0	7.3	7.3	4.0	7.3	5.7	7.0	6.0	6.3	5.7	5.3	5.7	6.7	7.0	6.4	
ABT-CHW-1	7.3	6.0	7.0	6.0	7.0	8.3	7.3	7.0	6.3	5.7	7.3	6.0	.	7.0	4.7	5.7	7.0	6.0	7.0	6.0	6.3	5.7	5.3	5.7	6.7	7.0	6.4	
ACF 083	6.3	5.7	7.3	5.7	7.0	8.3	8.0	7.0	7.0	5.0	5.7	5.7	6.7	6.7	5.5	4.7	7.7	6.7	7.0	5.3	6.3	5.3	5.3	5.3	6.7	7.0	6.7	6.4
SHADOW II	7.7	6.0	7.0	6.3	6.7	8.3	7.0	7.0	6.3	6.0	7.0	6.3	5.3	7.0	4.7	3.7	6.3	6.7	7.0	5.0	6.3	6.3	5.0	5.3	6.7	7.0	6.3	
TIFFANY	6.7	5.3	6.3	6.0	6.7	8.0	7.3	7.0	6.3	5.3	7.0	6.0	5.7	6.3	4.7	4.0	6.3	6.3	7.0	5.0	5.7	5.3	4.3	6.3	7.0	7.0	6.1	
SR 5100	6.7	5.0	5.3	5.7	6.7	7.3	7.0	7.0	6.7	4.7	6.3	6.0	4.7	7.3	6.3	4.0	6.7	6.0	6.7	5.3	6.0	5.7	4.3	4.7	6.7	6.3	6.0	
SANDPIPER	7.0	6.0	6.3	5.7	6.7	7.7	7.7	6.7	7.0	5.0	5.3	6.0	5.0	6.7	4.3	4.0	6.7	5.0	7.5	4.7	6.0	5.7	4.3	4.0	6.7	7.0	6.0	
BRIDGEPORT	6.7	5.0	6.3	5.7	7.0	7.7	7.0	6.7	7.0	4.7	6.0	6.0	4.7	6.7	5.7	4.7	6.3	6.0	7.0	4.7	6.3	4.7	4.3	4.3	7.0	6.3	6.0	
WRIGLEY (ACF 092)	6.0	5.3	6.7	5.3	6.7	7.7	7.0	7.0	6.7	4.7	5.3	6.0	5.0	7.0	4.7	2.7	7.0	6.0	7.0	5.0	5.7	4.7	5.0	5.0	6.0	7.0	5.9	
JAMESTOWN II	7.0	4.3	5.7	5.3	7.0	8.3	7.0	7.0	6.3	5.0	6.7	5.3	4.3	6.0	4.0	3.3	6.0	5.3	7.0	4.3	5.7	6.0	4.7	5.0	6.0	7.0	5.8	
TREASURE (E)	6.7	5.0	6.3	5.7	6.7	7.3	6.3	6.3	6.3	5.0	5.3	5.7	4.0	7.3	4.0	3.3	6.0	5.7	7.0	4.3	6.0	5.3	5.0	4.0	5.7	6.3	6.0	5.7
LSD VALUE	1.3	1.3	1.4	1.1	0.7	0.9	1.0	0.6	0.9	1.1	2.0	1.0	1.2	1.8	1.8	1.3	1.1	1.2	0.5	0.9	0.7	1.3	1.1	1.7	1.2	0.4	0.5	0.2
C.V. (%)	11.1	13.1	12.7	11.8	6.0	6.8	7.9	5.4	8.4	11.8	19.7	9.9	12.6	15.9	19.8	16.2	9.6	12.5	4.0	10.6	7.4	13.9	14.5	18.9	11.2	3.9	5.0	11.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 14B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2001 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CAL	KV1	MI1	OK1	WA1	MEAN
LONGFELLOW II	97.7	86.0	85.0	65.0	83.3	83.4
AMBASSADOR	97.7	89.7	88.3	48.3	81.7	81.1
ABT-CHW-2	97.7	85.0	91.7	43.3	81.7	79.9
TREASURE (E)	97.7	89.7	83.3	40.0	75.0	77.1
MAGIC	94.3	83.3	85.0	38.3	75.0	75.2
WRIGLEY (ACF 092)	99.0	80.0	85.0	27.3	80.0	74.3
ABT-CHW-3	97.7	92.7	88.0	11.0	78.3	73.5
PICK FRC A-93	97.7	93.0	86.7	21.7	68.3	73.5
SHADOW II	99.0	96.0	88.3	0.7	83.3	73.5
SR 5100	97.7	89.7	89.7	12.0	73.3	72.5
BRIDGEPORT	99.0	71.7	91.7	26.7	68.3	71.5
INTRIGUE	95.0	91.7	88.3	10.3	70.0	71.1
ACF 083	97.7	85.0	83.3	3.7	80.0	69.9
MB-63	95.0	74.0	95.0	10.3	71.7	69.2
ABT-CHW-1	99.0	90.0	83.3	10.7	61.7	68.9
BRITTANY	97.7	78.3	83.3	26.7	58.3	68.9
CULOMBRA	96.3	86.3	73.3	4.3	75.0	67.1
BAR CHF 8 FUS2	96.3	53.3	91.7	25.0	66.7	66.6
SILHOUEETTE (PICK FRC 4-92)	97.7	68.3	90.0	7.0	63.3	65.3
BANNER III	94.7	70.0	85.0	4.3	68.3	64.5
JAMESTOWN II	97.7	61.7	81.7	2.7	76.7	64.1
SANDPIPER	97.7	55.0	85.0	1.7	75.0	62.9
TIFFANY	97.7	50.0	84.7	1.0	75.0	61.7
LSD VALUE	3.7	18.5	13.5	36.2	20.5	9.5
C.V. (%)	2.4	14.5	9.7	117.0	17.4	18.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

2003000158

TABLE 22B. WINTER COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
1999 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	KY1	NJ1	OK1	VA1	MEAN
ACF 083	9.0	7.0	4.7	6.0	6.7
AMBASSADOR	7.3	7.3	4.3	7.3	6.6
INTRIGUE	8.0	6.3	4.3	6.7	6.3
MB-63	8.7	5.3	4.0	7.3	6.3
PICK FRC A-93	7.7	6.3	4.0	7.3	6.3
BRITTANY	8.0	4.7	4.7	7.0	6.1
MAGIC	7.7	5.7	4.3	6.7	6.1
ABT-CHW-2	8.0	6.3	4.0	6.0	6.1
CULOMBRA	7.3	6.0	4.3	6.7	6.1
SILHOUETTE (PICK FRC 4-92)	8.3	5.7	4.0	6.3	6.1
SHADOW II	7.7	6.7	4.0	5.7	6.0
ACF 092	7.0	6.0	4.0	7.0	6.0
BAR CHF 8 FUS2	8.3	5.3	4.0	6.3	6.0
ABT-CHW-3	8.0	5.0	4.0	6.7	5.9
BANNER III	7.7	6.0	4.0	6.0	5.9
SR 5100	7.3	5.7	4.0	6.7	5.9
TIFFANY	7.3	6.3	4.0	6.0	5.9
BRIDGEPORT	7.0	5.7	4.0	6.7	5.8
TREASURE (E)	7.3	6.0	4.3	5.7	5.8
SANDPIPER	7.7	5.0	4.3	6.0	5.8
LONGFELLOW II	7.3	5.3	4.0	6.0	5.7
ABT-CHW-1	6.0	5.0	4.0	6.7	5.4
PST-4HM	5.7	4.7	4.0	6.3	5.2
JAMESTOWN II	6.3	5.0	3.7	4.7	4.9
LSD VALUE	1.2	0.9	0.6	1.1	0.5
C.V. (%)	9.5	10.0	8.6	10.2	9.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

200300158

TABLE 23B. DOLLAR SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2000 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	IN1	NJ2	PA1	WI2	MEAN
LONGFELLOW II	8.3	8.0	8.3	5.3	7.5
AMBASSADOR	8.0	7.3	9.0	5.7	7.5
ABT-CHW-2	7.7	8.7	8.3	5.0	7.4
CULOMBRA	8.3	7.7	7.7	5.0	7.2
INTRIGUE	7.0	8.0	8.3	5.0	7.1
ABT-CHW-3	7.7	7.0	8.3	5.0	7.0
PST-4HM	8.3	8.0	8.7	3.0	7.0
BRITTANY	7.3	7.0	7.7	5.7	6.9
SANDPIPER	5.7	8.0	8.7	5.0	6.8
PICK FRC A-93	4.7	8.7	9.0	5.0	6.8
SILHOUEETTE (PICK FRC 4-92)	7.3	6.0	9.0	5.0	6.8
WRIGLEY (ACF 092)	6.7	7.0	8.7	4.0	6.6
SHADOW II	6.7	6.7	8.0	4.7	6.5
BAR CHF 8 FUS2	5.0	7.3	8.7	4.7	6.4
BRIDGEPORT	6.0	6.3	8.0	5.3	6.4
ABT-CHW-1	5.7	6.3	8.3	4.7	6.3
MAGIC	5.0	5.3	8.3	5.3	6.0
SR 5100	4.7	5.7	8.3	5.0	5.9
TIFFANY	4.3	6.0	8.3	5.0	5.9
JAMESTOWN II	4.7	6.3	7.0	5.0	5.8
ACF 083	6.0	4.3	8.0	4.0	5.6
LSD VALUE	2.4	1.9	1.3	1.0	0.9
C.V. (%)	22.8	16.8	9.7	12.4	16.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

200300158

TABLE 24B. RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
2000 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	ME2	NJ2	NS1	WA3	MEAN
BRIDGEPORT	9.0	9.0	5.7	7.3	7.8
AMBASSADOR	8.7	9.0	5.3	7.0	7.5
ACF 083	8.3	9.0	5.0	7.0	7.3
BRITTANY	9.0	9.0	5.0	6.3	7.3
PST-4HM	8.3	9.0	4.0	7.7	7.3
ABT-CHW-3	7.3	9.0	5.3	7.3	7.3
LONGFELLOW II	8.0	8.3	5.0	7.3	7.2
CULOMERA	8.0	8.7	5.0	7.0	7.2
SANDPIPER	8.3	7.7	5.7	6.7	7.1
SR 5100	7.7	9.0	4.0	7.7	7.1
SHADOW II	8.0	8.7	5.0	6.7	7.1
ABT-CHW-1	8.3	9.0	3.3	7.3	7.0
ABT-CHW-2	8.0	9.0	3.7	7.0	6.9
WRIGLEY (ACF 092)	7.0	9.0	4.3	7.3	6.9
SILHOUETTE (PICK FRC 4-92)	8.0	8.3	4.7	6.3	6.8
JAMESTOWN II	8.0	8.7	5.0	5.7	6.8
PICK FRC A-93	7.0	9.0	4.3	7.0	6.8
BAR CHF 8 FUS2	8.0	8.0	4.7	6.3	6.8
INTRIGUE	7.0	8.3	4.3	7.0	6.7
TIFFANY	8.7	7.0	4.7	6.3	6.7
MAGIC	7.3	8.3	4.0	6.7	6.6
LSD VALUE	1.6	1.4	2.2	1.1	0.8
C.V. (%)	12.5	9.8	29.9	10.0	14.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

200300158

TABLE 25B. LEAF SPOT RATINGS OF CHEWINGS FESCUE CULTIVARS 1/
1999 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	ME1	ME2	NJ1	NJ2	MEAN
ABT-CHW-3	6.7	9.0	5.3	7.5	7.1
AMBASSADOR	7.3	9.0	4.7	7.3	7.1
INTRIGUE	7.0	8.7	4.3	7.7	6.9
SHADOW II	6.3	8.7	5.0	7.7	6.9
BANNER III	7.3	9.0	4.7	6.0	6.8
PICK FRC A-93	6.0	8.7	4.3	8.0	6.8
ABT-CHW-2	7.0	8.0	5.0	6.7	6.7
LONGFELLOW II	6.0	7.3	4.3	8.0	6.4
ACF 092	4.3	8.7	4.7	7.3	6.3
TREASURE (E)	5.7	8.7	4.3	6.3	6.3
CULOMBRA	5.3	9.0	3.7	6.7	6.2
SILHOUETTE (PICK FRC 4-92)	6.0	9.0	3.7	6.0	6.2
BAR CHF 8 FUS2	6.3	9.0	4.0	5.3	6.2
ABT-CHW-1	6.3	7.7	5.0	5.3	6.1
MAGIC	4.7	9.0	3.7	6.7	6.0
TIFFANY	7.3	9.0	2.7	5.0	6.0
MB-63	6.7	7.3	3.3	5.7	5.8
SANDPIPER	6.0	9.0	3.3	4.7	5.8
ACF 083	5.3	8.7	3.3	5.3	5.7
BRITTANY	5.3	7.0	4.3	6.0	5.7
BRIDGEPORT	5.0	8.7	3.7	5.0	5.6
SR 5100	5.0	9.0	3.3	5.0	5.6
PST-4HM	6.0	7.0	4.0	4.7	5.4
JAMESTOWN II	5.0	9.0	3.7	3.0	5.2
LSR VALUE	1.9	2.1	1.4	1.5	0.9
C.V. (%)	19.7	15.1	20.7	15.0	17.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

200300158

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FORM APPROVED - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Lebanon Seaboard Corporation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER LTP-5001	3. VARIETY NAME Ambassador
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 10 Huntsville, UT 84317-0010	5. TELEPHONE (Include area code) (503) 580-7333	6. FAX (Include area code) (801) 745-4610
7. PVPO NUMBER 200300158		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed).

Ambassador was developed by Lebanon Seaboard Corporation using germplasm obtained from Rutgers University and The New Jersey Agricultural Experiment Station. Rights to this germplasm were given to Lebanon Seaboard via an Option Agreement. A royalty is paid to Rutgers based on production.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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